

INTERNATIONAL SEARCH REPORT

PCT/IL20U5/000097

A CLASSIFICATION ATTORNEY OFF. & SUBJECT MATTER C12Q1/68 C12N15/11		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C12N C12Q		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate of the relevant passages	Relevant to claim No
X	SANDO S ET AL: "Amplified nucleic acid sensing using programmed self-cleaving DNazyme" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC, US, vol . 125, no. 51, 3 December 2003 (2003-12-03), pages 15720-15721, XP002986218 ISSN: 0002-7863 the whole document	1,2,5,7, 9,11,13, 16
-/-		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C		
<input checked="" type="checkbox"/> Patent family members are listed in annex		
* Special categories of cited documents 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure use exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents such combination being obvious to a person skilled in the art '&' document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
15 December 2005		10/01/2006
Name and mailing address of the ISA European Patent Office, P B 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer Rutz, B

INTERNATIONAL SEARCH REPORT

PCT/IL2005/000097

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	STOJANOVIC M N ET AL: "Catalytic molecular beacons" CHEMBIOCHEM - A EUROPEAN JOURNAL OF CHEMICAL BIOLOGY, WILEY VCH, WEINHEIM, DE, vol. 2, no. 6, 1 June 2001 (2001-06-01), pages 411-415, XP002260903 ISSN: 1439-4227 the whole document	1,2,5,7, 9,11,13, 16
X	US 2003/219775 A1 (WARD DAVID C ET AL) 27 November 2003 (2003-11-27) the whole document	1,2,5,7, 9-13
X	US 5 589 332 A (SHIH ET AL) 31 December 1996 (1996-12-31) the whole document	1,5,7, 9-13
Y	PATOLSKY F ET AL: "AMPLIFIED DNA DETECTION BY ELECTROGENERATED BIOCHEMILUMINESCENCE AND BY THE CATALYZED PRECIPITATION OF AN INSOLUBLE PRODUCT ON ELECTRODES IN THE PRESENCE OF THE DOXORUBICIN INTERCALATOR" ANGEWANDTE CHEMIE. INTERNATIONAL EDITION, VERLAG CHEMIE. WEINHEIM, DE, vol. 41, no. 18, 16 September 2002 (2002-09-16), pages 3398-3402, XP001197488 ISSN: 0570-0833 the whole document	4
Y	TRAVASCIO P ET AL: "The peroxidase activity of a heme-DNA oligonucleotide complex: free radical damage to specific guanine bases of the DNA." JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, 21 FEB 2001, vol. 123, no. 7, 21 February 2001 (2001-02-21), pages 1337-1348, XP002358407 ISSN: 0002-7863 the whole document	4
A	PATOLSKY FERNANDO ET AL: "Lighting-up the dynamics of telomerization and DNA replication by CdSe-ZnS quantum dots" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC, US, vol. 125, no. 46, 19 November 2003 (2003-11-19), pages 13918-13919, XP002308092 ISSN: 0002-7863	14,15, 17-20
	-/~	

INTERNATIONAL SEARCH REPORT

PCT/IL20U5/000097

A. CLASSIFICATION <small>ATTORNEY OFF. & INVENTOR'S NAME</small> C12Q1/68 C12N15/11		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C12N C12Q		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate of the relevant passages	Relevant to claim No
X	<p>SANDO S ET AL: "Amplified nucleic acid sensing using programmed self-cleaving DNazyme".</p> <p>JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC, US,</p> <p>vol . 125, no. 51,</p> <p>3 December 2003 (2003-12-03), pages 15720-15721, XP002986218</p> <p>ISSN: 0002-7863</p> <p>the whole document</p> <p style="text-align: center;">-/-</p>	1,2,5,7, 9,11,13, 16
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C <input checked="" type="checkbox"/> Patent family members are listed in annex		
* Special categories of cited documents <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure use exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>		
Date of the actual completion of the international search 15 December 2005		Date of mailing of the international search report 10/01/2006
Name and mailing address of the ISA European Patent Office, P B 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer Rutz, B

INTERNATIONAL SEARCH REPORT

PCT/IL2005/000097

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	STOJANOVIC M N ET AL: "Catalytic molecular beacons" CHEMBIOCHEM - A EUROPEAN JOURNAL OF CHEMICAL BIOLOGY, WILEY VCH, WEINHEIM, DE, vol. 2, no. 6, 1 June 2001 (2001-06-01), pages 411-415, XP002260903 ISSN: 1439-4227 the whole document	1,2,5,7, 9,11,13, 16
X	US 2003/219775 A1 (WARD DAVID C ET AL) 27 November 2003 (2003-11-27) the whole document	1,2,5,7, 9-13
X	US 5 589 332 A (SHIH ET AL) 31 December 1996 (1996-12-31) the whole document	1,5,7, 9-13
Y	PATOLSKY F ET AL: "AMPLIFIED DNA DETECTION BY ELECTROGENERATED BIOCHEMILUMINESCENCE AND BY THE CATALYZED PRECIPITATION OF AN INSOLUBLE PRODUCT ON ELECTRODES IN THE PRESENCE OF THE DOXORUBICIN INTERCALATOR" ANGEWANDTE CHEMIE. INTERNATIONAL EDITION, VERLAG CHEMIE. WEINHEIM, DE, vol. 41, no. 18, 16 September 2002 (2002-09-16), pages 3398-3402, XP001197488 ISSN: 0570-0833 the whole document	4
Y	TRAVASCIO P ET AL: "The peroxidase activity of a hemin — DNA oligonucleotide complex: free radical damage to specific guanine bases of the DNA." JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, 21 FEB 2001, vol. 123, no. 7, 21 February 2001 (2001-02-21), pages 1337-1348, XP002358407 ISSN: 0002-7863 the whole document	4
A	PATOLSKY FERNANDO ET AL: "Lighting-up the dynamics of telomerization and DNA replication by CdSe-ZnS quantum dots" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC, US, vol. 125, no. 46, 19 November 2003 (2003-11-19), pages 13918-13919, XP002308092 ISSN: 0002-7863	14,15, 17-20

-/-

INTERNATIONAL SEARCH REPORT

PCT/IL2005/000097

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WEIZMANN YOSSI ET AL: "Magneto-mechanical detection of nucleic acids and telomerase activity in cancer cells." JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. 4 FEB 2004, vol . 126, no. 4, 8 January 2004 (2004-01-08) , pages 1073-1080, XP002358409 ISSN: 0002-7863 the whole document	14, 15, 17-20
A	TRAVASCIO P ET AL: "DNA-enhanced peroxidase activity of a DNA-aptamer-hemin complex. " CHEMISTRY & BIOLOGY. SEP 1998, vol . 5, no. 9, September 1998 (1998-09), pages 505-517, XP002358408 ISSN: 1074-5521 the whole document	3,4
P, X, O	TOMBELLI S. ET AL. : "New trends in nucleic acids based biosensors- Florence, Italy, October 25-28, 2003" ANALYTICAL LETTERS, vol . 37, no. 6, 2004, XP009053839 page 1045, last paragraph - page 1046, paragraph 1	1-8, 13, 16
P ₅ X	XIAO YI ET AL: "Catalytic beacons for the detection of DNA and telomerase activity. " JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. 23 JUN 2004, vol . 126, no. 24, 23 June 2004 (2004-06-23) , pages 7430-7431 , XP002358411 ISSN: 0002-7863 the whole document	1-20
P,X	PAVLOV V ET AL: "AMPLIFIED CHEMILUMINESCENCE SURFACE DETECTION OF DNA AND TELOMERASE ACTIVITY USING CATALYTIC NUCLEIC ACID LABELS" ANALYTICAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. COLUMBUS, US, vol . 76, no. 7, 1 April 2004 (2004-04-01) , pages 2152-2156, XP001196742 ISSN: 0003-2700 the whole document	1-20

-J-

INTERNATIONAL SEARCH REPORT

PCT/IL2005/000097

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
P ₅ X	<p>XIAO YI ET AL: "Lighting up biochemi luminescence by the surface self-assembly of DNA-hemin complexes." CHEMBIOCHEM : A EUROPEAN JOURNAL OF CHEMICAL BIOLOGY. 5 MAR 2004, vol. 5, no. 3, 5 March 2004 (2004-03-05), pages 374-379, XP002358412 ISSN: 1439-4227 the whole document -----</p>	1-13,16

INTERNATIONAL SEARCH REPORT

PCT/IL2005/000097

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2003219775	A1	27-11-2003	NONE	
US 5589332	A	31-12-1996	AT 217347 T	15-05--2002
			AU 675482 B2	06-02--1997
			AU 5739694 A	04-07--1994
			DE 69331911 D1	13-06--2002
			DE 69331911 T2	21-11--2002
			EP 0681613 A1	15-11--1995
			ES 2176233 T3	01-12--2002
			JP 8507202 T	06-08--1996
			JP 3595841 B2	02-12--2004
			JP 2004000281 A	08-01--2004
			WO 9413833 A1	23-06--1994